

National Board of Examinations

Question Paper Name :	DNB Radio Diagnosis Paper4
Subject Name :	DNB Radio Diagnosis Paper4
Creation Date :	2022-06-25 18:45:14
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Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Radio Diagnosis Paper4

Group Number :	1
Group Id :	3271871186
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DNB Radio Diagnosis Paper4

Section Id :	3271871189
Section Number :	1

Section type : Offline
Mandatory or Optional : Mandatory
Number of Questions to be attempted : 10
Section Marks : 100
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 3271871193
Question Shuffling Allowed : No

Question Number : 1 Question Id : 32718710912 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Please write your answers in the answer booklet within the allotted pages as follows:-

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. Describe the principle, technique and applications of elastography. [3+3+4]

Question Number : 2 Question Id : 32718710913 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is scatter radiation? Describe various methods to reduce it. [5+5]

Question Number : 3 Question Id : 32718710914 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is parallel imaging? Describe in brief its technique. [3+7]

Question Number : 4 Question Id : 32718710915 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Pulse fluoroscopy. [5]

b) Zero lead aprons. [5]

Question Number : 5 Question Id : 32718710916 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is Magnetic Resonance Urography? Describe its technique in brief. What are its applications, advantages and disadvantages? [2+4+4]

Question Number : 6 Question Id : 32718710917 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What are the techniques of MR perfusion? Describe them in brief. [4+6]

Question Number : 7 Question Id : 32718710918 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is chemical shift imaging? Describe the advantages and disadvantages of chemical shift in MRI. [4+(3+3)]

Question Number : 8 Question Id : 32718710919 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is K space? How is the concept used in various MR sequences? [5+5]

Question Number : 9 Question Id : 32718710920 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

What are fat suppression techniques on MRI? Describe in brief the various sequences used for fat suppression. [4+6]

Question Number : 10 Question Id : 32718710921 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Breast tomosynthesis. [5]
- b) Artificial intelligence in Radiology. [5]